

DESCRIPTION

The work shall consist of furnishing and installing new steel mast arms for traffic signals, in accordance with the contract documents or directions of the ENGINEER.

MATERIALS

The steel arm masts herein specified are to be used for suspending traffic signal heads. The mast arm shall be galvanized steel of round tapered tubular construction, constructed in accordance with the latest ASTM specifications. The arm shall be equipped with a steel flange plate electrically welded to the butt end of the mast arm. The steel flange plate shall telescope the butt end of the mast arm shaft and shall be continuously welded on the inside bottom and outside top. The entire mast arm assembly shall be hot dip galvanized in accordance with ASTM A 123. The mast arm shall be furnished with four (4) high strength steel bolts in accordance with ASTM A 325 for attaching the arm to the pole. The mast arm shall be furnished with clamp and clevis assemblies for attaching traffic signal heads as shown on the plans. The mast arm shall be round continuously tapered construction 7/16" per meter of length. The arm shall be of one piece, having no more than one longitudinal seam, which shall be continuously welded and ground or rolled flush. Mast arm extension shall be as shown on the plans. Mast arm caps shall be as shown on the plans.

The mast arms shall be constructed to the sizes and dimensions shown on the plans.

All welding shall be performed in accordance with the New York State Steel Construction Manual.

All materials shall be in conformance with NYSDOT Standard Specifications, Section 724-03, latest revision.

BASIS OF ACCEPTANCE

Acceptance of arms covered by this specification will be based on manufacturer's certification of compliance with the specification requirements signed by an officer of the company. Detailed drawings of the arms shall be submitted with the certification.

CONSTRUCTION DETAILS

Mast arms shall be erected as specified in the contract documents and as directed by the ENGINEER.

Mast arm and signal locations shown on the contract plans shall be field checked for any condition that may affect their placement; where changes are necessary the exact location will be determined by the ENGINEER. It shall be the CONTRACTOR's responsibility to verify mast arm length before ordering mast arms.

Mast arm erections shall include installation of mast arms and attachment of fittings as specified in the contract documents.

Field galvanizing shall be done in accordance with NYSDOT Standard Specifications, Section 719-01, latest revision..

METHOD OF MEASUREMENT

The mast arms will be measured for payment as the number of each unit furnished and installed in accordance with the contract documents or as directed by the ENGINEER.

BASIS OF PAYMENT

The unit price bid for each mast arm shall include all items specified in the material and construction details including assembly and erection, and field galvanizing as required.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
686.8510	Mast Arm Traffic Signal, 10 ft. length	EA
686.8512	Mast Arm Traffic Signal, 12 ft. length	EA
686.8514	Mast Arm Traffic Signal, 14 ft. length	EA
686.8516	Mast Arm Traffic Signal, 16 ft. length	EA
686.8518	Mast Arm Traffic Signal, 18 ft. length	EA
686.8520	Mast Arm Traffic Signal, 20 ft. length	EA
686.8522	Mast Arm Traffic Signal, 22 ft. length	EA
686.8524	Mast Arm Traffic Signal, 24 ft. length	EA
686.8526	Mast Arm Traffic Signal, 26 ft. length	EA
686.8528	Mast Arm Traffic Signal, 28 ft. length	EA
686.8530	Mast Arm Traffic Signal, 30 ft. length	EA
686.8532	Mast Arm Traffic Signal, 32 ft. length	EA
686.8534	Mast Arm Traffic Signal, 34 ft. length	EA
686.8536	Mast Arm Traffic Signal, 36 ft. length	EA
686.8538	Mast Arm Traffic Signal, 38 ft. length	EA
686.8540	Mast Arm Traffic Signal, 40 ft. length	EA
686.8542	Mast Arm Traffic Signal, 42 ft. length	EA